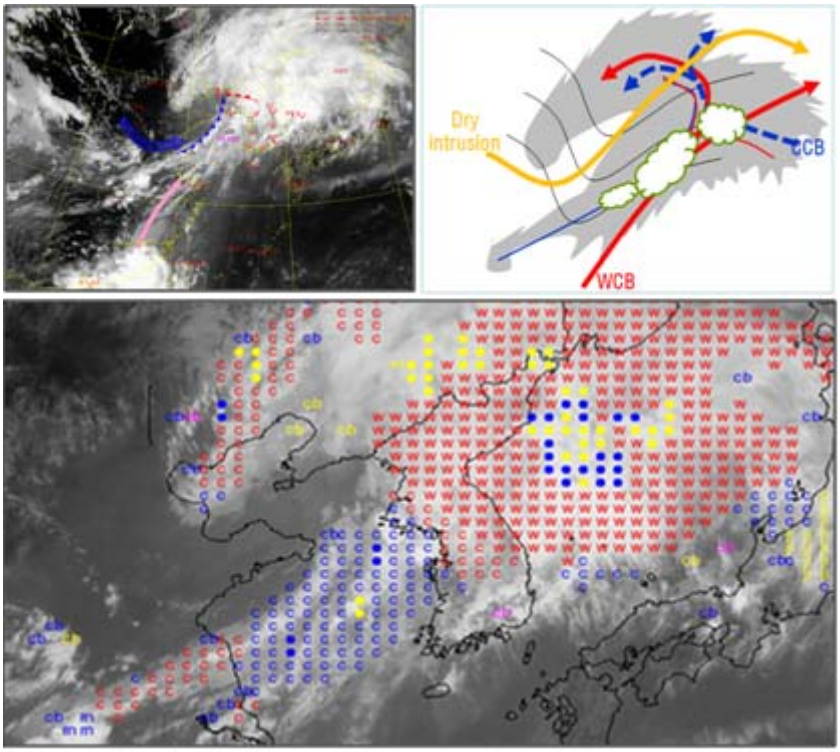
Prepared by KMA
Agenda Item: II/7
Discussed in WGII

Current status of weather support for nowcasting and very-short range forecast

This paper reports current status of weather support for nowcasting and very short range forecast. KMA improved satellite image analysis technique through introduction of new advanced skill (NWCSAF) from EUMESAT. This improved image interpretation report will be provided operationally at the end of this year.



Current status of weather support for nowcasting and very-short range forecasting

1. Introduction

Korea Meteorological Administration (KMA) has introduced software package for weather support of SAFNWC (Satellite Application Facilities Nowcasting and Very Short Range Forecasting) at the end of 2008 through MOU between KMA and EUMESAT. One (Automatic Satellite Image Interpretation: ASII) of the software package of the SAFNWC/MSG) has been modified into Korean type using MTSAT-1R and NWP model data that are operationally used in KMA. The ASII of Korean type (K-ASII) is going to provide to forecaster via homepage for only KMA at the end of this year.

2. The utilization of new advanced analysis skill (NWC/SAF) for weather forecasting

The first Korean geostationary satellite, COMS can help forecasters to see more frequently satellite image than when they receive data from foreign satellite. KMA plan to improve existing image analysis technique and develop new advanced skill. K-ASII is one of those achievements as successful results obtained through introducing NWCSAF from EUMESAT. K-ASII still is in testing step for fine tuning process to adjust Korean weather and climate environment; however it is expected to make satellite image interpretation easier for nowcasting and very short range forecast. In particular, in order to get more useful information K-ASII generates inter-grade products like cloud classification and vorticity in real time

The K-ASII products that will be operationally provided to user are as follows:

No	Producs	Format (size)
1	K-ASII	png (1248*1248)
2	K-ASII + NWP-T or NWP-h	png (1248*1248)
3	K-ASII + NWP + NWP-T or NWP-h	png (1248*1248)
4	IR1 + Vor.	png (1248*1248)
5	WV + Vor.	png (1248*1248)
6	IR1 + AMV + Vor.	png (1248*1248)
7	WV + AMV + Vor.	png (1248*1248)
8	Cloud classification Type1	png (1248*1248)
9	Cloud classification Type2	png (1248*1248)